

Trade name: Hardener FH-Super for cds-AGL BeddingMortar

Version: 3 / GB

Date revised: 15.12.2025

Substance number: 19514

Replaces Version: 2 / GB

Print date: 15.12.2025

## **SECTION 1: Identification of the substance/mixture and of the company/undertaking \*\*\***

### **1.1. Product identifier**

Hardener FH-Super for cds-AGL BeddingMortar

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

#### **Use of the substance/preparation**

Coating material

### **1.3. Details of the supplier of the safety data sheet**

#### **Address/Manufacturer**

cds Polymere GmbH &amp; Co. KG

Gau-Bickelheimer Str. 72

55576 Sprendlingen/Rhh.

Telephone no. +49(6701) 9350-0

Fax no. +49(6701) 9350-50

Information provided info@cds-polymere.de

by / telephone

### **1.4. Emergency telephone number**

Emergency CONTACT (24-Hour-Number): GBK GmbH +49 (0)6132-84463

## **SECTION 2: Hazards identification \*\*\***

### **2.1. Classification of the substance or mixture**

#### **Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Repr. 2	H361fd
STOT RE 2	H373
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

### **2.2. Label elements**

#### **Labelling according to regulation (EC) No 1272/2008**

##### **Hazard pictograms**



##### **Signal word**

Danger

##### **Hazard statements**

H314 Causes severe skin burns and eye damage.  
 H317 May cause an allergic skin reaction.

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H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or doctor.

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

contains 2-piperazin-1-ylethylamine; 4-tert-Butylphenol; Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols; (Z)-octadec-9-enylamine; m-Phenylenebis(methylamine); Paraformaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenebis(methylamine) and trimethylhexane-1,6-diamine; 2,2,4-Trimethylhexane-1,6-diamine; benzyl alcohol

**2.3. Other hazards**

No special hazards have to be mentioned.

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product contains substances that have endocrine disrupting properties with respect to non-target organisms. See SECTION 3 of this safety data sheet.

**SECTION 3: Composition/information on ingredients \*\*\*****3.2. Mixtures****Hazardous ingredients****4-tert-Butylphenol**

CAS No. 98-54-4

EINECS no. 202-679-0

Registration no. 01-2119489419-21-XXXX

Concentration  $\geq 10$  < 25 %

Classification (Regulation (EC) No. 1272/2008)

Skin Irrit. 2 H315

Eye Dam. 1 H318

Repr. 2 H361f

Aquatic Chronic 1 H410

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Chronic H410 M = 1

1

Supplemental information

The substance is contained in the Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**m-Phenylenebis(methylamine)**

CAS No. 1477-55-0

EINECS no. 216-032-5

Registration no. 01-2119480150-50-XXXX

Concentration  $\geq 10$  < 25 %

Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4 H302

Acute Tox. 4 H332

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Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1B	H317
Aquatic Chronic 3	H412

ATE	oral	980	mg/kg
ATE	inhalative, Dust/Mist	1,34	mg/l
cATpE	inhalative, Vapors	11	mg/l

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

EINECS no.	701-443-9			
Registration no.	01-2119980970-27-XXXX			
Concentration	>= 10	<	25	%
Classification (Regulation (EC) No. 1272/2008)				
	Skin Irrit. 2	H315		
	Skin Sens. 1A	H317		
	Aquatic Chronic 2	H411		

**Paraformaldehyde, polymeric reaction products with 4-tert-butylphenol, m-phenylenbis(methylamine) and trimethylhexane-1,6-diamine**

Registration no.	POLYMER			
Concentration	>= 10	<	25	%
Classification (Regulation (EC) No. 1272/2008)				
	Eye Dam. 1	H318		
	Skin Sens. 1	H317		
	Aquatic Chronic 3	H412		

**(Z)-octadec-9-enylamine**

CAS No.	112-90-3			
EINECS no.	204-015-5			
Registration no.	01-2119473797-19-XXXX			
Concentration	>= 5	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		
	Asp. Tox. 1	H304		
	Skin Corr. 1B	H314		
	STOT SE 3	H335		
	STOT RE 2	H373		
	Aquatic Acute 1	H400		
	Aquatic Chronic 1	H410		

Concentration limits (Regulation (EC) No. 1272/2008)				
	Aquatic Acute 1	M = 10		
	Aquatic Chronic 1	M = 10		

ATE	oral	1.200	mg/kg
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**Urethane Prepolymer**

Concentration	>= 1	<	10	%
Classification (Regulation (EC) No. 1272/2008)				
	Acute Tox. 4	H302		

cATpE	oral	500	mg/kg
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**2,2,4-Trimethylhexane-1,6-diamine**

CAS No.	25513-64-8			
EINECS no.	247-063-2			
Registration no.	01-2119560598-25-XXXX			
Concentration	>= 5	<	10	%

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## Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Skin Corr. 1A	H314
Eye Dam. 1	H318
Skin Sens. 1A	H317

ATE oral 910 mg/kg

**2-piperazin-1-ylethylamine**

CAS No. 140-31-8

EINECS no. 205-411-0

Registration no. 01-2119471486-30-XXXX

Concentration  $\geq 3$  < 5 %

## Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 3	H311
Repr. 2	H361
STOT RE 1	H372
Skin Corr. 1B	H314
Eye Dam. 1	H318
Acute Tox. 4	H302
Skin Sens. 1	H317
Aquatic Chronic 3	H412

ATE dermal 866 mg/kg

**benzyl alcohol**

CAS No. 100-51-6

EINECS no. 202-859-9

Registration no. 01-2119492630-38-XXXX

Concentration  $\geq 1$  < 2,5 %

## Classification (Regulation (EC) No. 1272/2008)

Acute Tox. 4	H302
Eye Irrit. 2	H319
Skin Sens. 1B	H317

ATE oral 1.200 mg/kg

**4-methylpentan-2-one**

CAS No. 108-10-1

EINECS no. 203-550-1

Registration no. 01-2119473980-30-XXXX

Concentration  $\geq 0,1$  < 1 %

## Classification (Regulation (EC) No. 1272/2008)

Flam. Liq. 2	H225
Eye Irrit. 2	H319
Acute Tox. 4	H332
STOT SE 3	H336
Carc. 2	H351

**Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).**

4-tert-Butylphenol

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective

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measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

**After inhalation**

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately. Give a Cortison spray at an early stage.

**After skin contact**

Wash off immediately with soap and water. Seek medical advice immediately.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

**After ingestion**

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

**Adhere to personal protective measures when giving first aid**

First aider: Pay attention to self-protection!

**4.2. Most important symptoms and effects, both acute and delayed**

Until now no symptoms known so far.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / hazards**

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Dry powder

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible. Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); Pyrolysis products

**5.3. Advice for firefighters****Special protective equipment for fire-fighting**

Do not inhale explosion and/or combustion gases. In case of combustion use a suitable breathing apparatus. Wear full protective suit.

**Other information**

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations. Observe manufacturer's / distributor's instructions.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

**6.2. Environmental precautions**

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of

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contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

### 6.3. Methods and material for containment and cleaning up

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

### 7.2. Conditions for safe storage, including any incompatibilities

#### Requirements for storage rooms and vessels

Keep in original packaging, tightly closed. Storage rooms must be properly ventilated. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Provide solvent-resistant and impermeable floor.

#### Hints on storage assembly

Do not store together with foodstuffs.

#### Further information on storage conditions

Do not keep at temperatures above 20 °C.

### 7.3. Specific end use(s)

Read attached instructions before use.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limit values

##### m-Phenylenebis(methylamine)

List	ACGIH		
Type	C		
Value	0,1	mg/m <sup>3</sup>	

##### m-Phenylenebis(methylamine)

List	MAK(GKV 2003)
Remarks:	als Dampf und Aerosol; vgl. Abschn. IV

##### 4-tert-Butylphenol

List	TRGS 900		
Type	AGW		
Value	0,5	mg/m <sup>3</sup>	0,08 ppm(V)

#### Biological limit values

##### 4-tert-Butylphenol

List	BGW (TRGS 903)
Value	2 mg/l
Parameter	4-tert-Butylphenol
Testing material	Urine (U)
Test date	End of exposure or end of shift (b)

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**Other information**

Abbreviations: E = respirable part, A = alveoli absorbable part

There are not known any further control parameters.

**Derived No/Minimal Effect Levels (DNEL/DMEL)**

**benzyl alcohol**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	8	mg/kg

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	22	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	110	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	40	mg/kg

**2-piperazin-1-ylethylamine**

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10,6	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Acute	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	10,6	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Local effects	
Concentration	0,015	mg/m <sup>3</sup>

Type of value	Derived No Effect Level (DNEL)	
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Reference group Worker  
 Duration of exposure Short term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 0,08 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 3,33 mg/kg/d

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Short term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 20 mg/kg/d

**m-Phenylenebis(methylamine)**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Route of exposure dermal  
 Concentration 0,33 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Route of exposure inhalative  
 Concentration 1,2 mg/m<sup>3</sup>

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 2,87 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 1,21 mg/m<sup>3</sup>

**4-tert-Butylphenol**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure dermal  
 Concentration 0,071 mg/kg

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative



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Concentration 0,5 mg/m<sup>3</sup>

**(Z)-octadec-9-enylamine**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 0,38 mg/m<sup>3</sup>

**4-methylpentan-2-one**

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 83 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Acute  
 Route of exposure inhalative  
 Mode of action Systemic effects  
 Concentration 208 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 83 mg/l

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Acute  
 Route of exposure inhalative  
 Mode of action Local effects  
 Concentration 208 mg/m<sup>3</sup>

Type of value Derived No Effect Level (DNEL)  
 Reference group Worker  
 Duration of exposure Long term  
 Route of exposure dermal  
 Mode of action Systemic effects  
 Concentration 11,8 mg/kg/d

**Predicted No Effect Concentration (PNEC)**

**benzyl alcohol**

Type of value PNEC  
 Type Freshwater  
 Concentration 1 mg/l

Type of value PNEC  
 Type Water (intermittent release)  
 Concentration 2,31 mg/l

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Type of value	PNEC		
Type	Saltwater		
Concentration	0,1		mg/l
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	39		mg/l
Type of value	PNEC		
Type	Freshwater sediment		
Concentration	5,27		mg/kg
Type of value	PNEC		
Type	Marine sediment		
Concentration	0,527		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	0,456		mg/kg

**2-piperazin-1-ylethylamine**

Type of value	PNEC		
Type	Freshwater		
Concentration	0,058		mg/l
Type of value	PNEC		
Type	Marine		
Concentration	0,0058		mg/l
Type of value	PNEC		
Type	Water (intermittent release)		
Concentration	0,58		mg/l
Type of value	PNEC		
Type	Sewage treatment plant (STP)		
Concentration	250		mg/l
Type of value	PNEC		
Type	Sediment		
Concentration	215		mg/kg
Type of value	PNEC		
Type	Marine sediment		
Concentration	21,5		mg/kg
Type of value	PNEC		
Type	Soil		
Concentration	1		mg/kg

**m-Phenylenebis(methylamine)**

Type of value	PNEC		
Type	Freshwater		
Concentration	0,094		mg/l
Type of value	PNEC		
Type	Marine		
Concentration	0,0094		mg/l

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Type of value	PNEC	
Type	Freshwater	
Concentration	0,0115	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,00115	mg/l

**4-tert-Butylphenol**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,01	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,001	mg/l

**(Z)-octadec-9-enylamine**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,00026	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,000026	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	0,55	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	0,1794	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,01794	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	10	mg/kg

**2,2,4-Trimethylhexane-1,6-diamine**

Type of value	PNEC	
Type	Freshwater	
Concentration	0,102	mg/l
Type of value	PNEC	
Type	Marine	
Concentration	0,01	mg/l

**4-methylpentan-2-one**

Type of value	PNEC	
Type	Freshwater	



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Concentration	0,6	mg/l
Type of value	PNEC	
Type	Saltwater	
Concentration	0,06	mg/l
Type of value	PNEC	
Type	Sewage treatment plant (STP)	
Concentration	27,5	mg/l
Type of value	PNEC	
Type	Freshwater sediment	
Concentration	8,27	mg/kg
Type of value	PNEC	
Type	Marine sediment	
Concentration	0,83	mg/kg
Type of value	PNEC	
Type	Soil	
Concentration	1,3	mg/kg

## 8.2. Exposure controls

### General protective and hygiene measures

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

### Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Short term: filter apparatus, combination filter A-P2; The respiratory protection must comply with the relevant CEN standards.

### Hand protection

Chemical resistant gloves  
 Appropriate Material nitrile  
 Material thickness  $\geq$  0,3 mm  
 Breakthrough time  $\geq$  480 min  
 Hand protection must comply with EN 374.  
 Check leak-tightness/impermeability prior to use.

### Eye protection

Safety glasses with side protection shield; Face shield; Eye protection must comply with EN 166.

### Body protection

Clothing as usual in the chemical industry. Protective shoes; Personal protective clothing must comply with the relevant CEN standards.

## SECTION 9: Physical and chemical properties \*\*\*

### 9.1. Information on basic physical and chemical properties

<b>Physical state</b>	liquid
<b>Odour</b>	amine-like
<b>Colour</b>	yellow
<b>Melting point</b>	
Remarks	not determined

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**Freezing point**

Remarks not determined

**Boiling point or initial boiling point and boiling range**

Value &gt; 200 °C

**Flammability**

evaluation not determined

**Upper and lower explosive limits**

Remarks not determined

**Flash point**

Value &gt; 100 °C

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**pH value**

Value	11	to	12
Concentration/H <sub>2</sub> O	1	%	
Temperature	20	°C	

**Viscosity**

Remarks not determined

**Solubility(ies)**

Remarks not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Density and/or relative density**

Value	1,05		g/cm <sup>3</sup>
Temperature	23	°C	

**Relative vapour density**

Remarks not determined

**9.2. Other information****Odour threshold**

Remarks not determined

**Evaporation rate (ether = 1) :**

Remarks not determined

**Solubility in water**

Remarks not determined

**Explosive properties**

evaluation not determined

**Oxidising properties**

Remarks not determined

**Other information**

None known

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## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No hazardous reactions when stored and handled according to prescribed instructions.

### **10.2. Chemical stability**

No hazardous reactions known.

### **10.3. Possibility of hazardous reactions**

No hazardous reactions known.

### **10.4. Conditions to avoid**

No hazardous reactions known.

### **10.5. Incompatible materials**

Reactions with strong oxidising agents. Reactions with strong acids. Reactions with strong alkalies.

### **10.6. Hazardous decomposition products**

Toxic gases/vapours, Irritant gases/vapours

## **SECTION 11: Toxicological information \*\*\***

### **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

#### **Acute oral toxicity**

ATE	2.230,09 58	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

#### **Acute oral toxicity (Components)**

##### **benzyl alcohol**

ATE	1200	mg/kg
-----	------	-------

##### **2-piperazin-1-ylethylamine**

Species	rat	
LD50	2140	mg/kg

##### **m-Phenylenebis(methylamine)**

Species	mouse	
LD50	1180	mg/kg

##### **m-Phenylenebis(methylamine)**

Species	rat	
LD50	980	mg/kg

##### **Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 423	

##### **4-tert-Butylphenol**

Species	rat	
LD50	> 2000	mg/kg

##### **(Z)-octadec-9-enylamine**

Species	rat	
LD50	1200 to 2000	mg/kg
Method	OECD 401	

##### **2,2,4-Trimethylhexane-1,6-diamine**

Species	rat	
LD50	910	mg/kg

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**4-methylpentan-2-one**

Species	rat	
LD50	2080	mg/kg
Method	OECD 401	

**Acute dermal toxicity**

ATE	> 10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

**Acute dermal toxicity (Components)****benzyl alcohol**

Species	rabbit	
LD50	> 2000	mg/kg

**2-piperazin-1-ylethylamine**

Species	rabbit	
LD50	866	mg/kg

**m-Phenylenebis(methylamine)**

Species	rabbit	
LD50	> 2000	mg/kg
Method	OECD 402	

**m-Phenylenebis(methylamine)**

Species	rat	
LD50	> 3100	mg/kg
Method	OECD 402	

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 402	

**4-tert-Butylphenol**

Species	rabbit	
LD50	> 2000	mg/kg

**4-methylpentan-2-one**

Species	rat	
LD50	> 2000	mg/kg

**Acute inhalational toxicity**

ATE	64,3964	mg/l
Administration/Form	Vapors	
Method	calculated value (Regulation (EC) No. 1272/2008)	
ATE	7,8447	mg/l
Administration/Form	Dust/Mist	
Method	calculated value (Regulation (EC) No. 1272/2008)	
Remarks	Based on available data, the classification criteria are not met.	

**Acute inhalative toxicity (Components)****benzyl alcohol**

Species	rat	
LC50	> 4,178	mg/l
Duration of exposure	4	h
Administration/Form	Dust/Mist	
Method	OECD 403	
Remarks	Based on available data, the classification criteria are not met.	

**benzyl alcohol**

Remarks	Expert judgement
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**m-Phenylenebis(methylamine)**

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Species rat  
 LC50 1,34 mg/l  
 Duration of exposure 4 h  
 Administration/Form Dust/Mist

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species rat  
 LC0 > 4,9 mg/l  
 Duration of exposure 4 h  
 Administration/Form Dust/Mist  
 Method OECD 403  
 Remarks Saturation Concentration: No demonstrable toxic effect

**4-tert-Butylphenol**

Species rat  
 LC50 5600 mg/l  
 Duration of exposure 4 h  
 Method OECD 403

**4-methylpentan-2-one**

ATE 11 mg/l  
 Administration/Form Vapors

**Skin corrosion/irritation**

evaluation corrosive  
 Remarks The classification criteria are met.

**Skin corrosion/irritation (Components)**

**(Z)-octadec-9-enylamine**

evaluation corrosive

**2-piperazin-1-ylethylamine**

evaluation corrosive

**m-Phenylenebis(methylamine)**

evaluation corrosive

**2,2,4-Trimethylhexane-1,6-diamine**

evaluation strongly corrosive  
 Method OECD 404

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species rabbit  
 evaluation irritant  
 Method OECD 404

**4-tert-Butylphenol**

Species rabbit  
 evaluation irritant  
 Method OECD 404

**Serious eye damage/irritation**

evaluation corrosive  
 Remarks The classification criteria are met.

**Serious eye damage/irritation (Components)**

**benzyl alcohol**

Species rabbit  
 evaluation irritant  
 Method OECD 405

**(Z)-octadec-9-enylamine**

evaluation corrosive

**2-piperazin-1-ylethylamine**

evaluation corrosive

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**m-Phenylenebis(methylamine)**

evaluation corrosive

**2,2,4-Trimethylhexane-1,6-diamine**

evaluation corrosive  
Method OECD 405

**4-tert-Butylphenol**

Species rabbit  
evaluation irritant - risk of serious damage to eyes  
Method OECD 405

**4-methylpentan-2-one**

Species rabbit  
evaluation irritant  
Method OECD 405

**Sensitization**

evaluation May cause sensitization by skin contact.  
Remarks The classification criteria are met.

**Sensitization (Components)**

**benzyl alcohol**

evaluation sensitizing

**2-piperazin-1-ylethylamine**

Species guinea pig  
evaluation sensitizing  
Method OECD 406

**m-Phenylenebis(methylamine)**

Species mouse  
evaluation sensitizing  
Method OECD 429

**2,2,4-Trimethylhexane-1,6-diamine**

Species guinea pig  
evaluation strongly sensitizing  
Method OECD 406

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species rabbit  
evaluation strongly sensitizing  
Method OECD 429

**Subacute, subchronic, chronic toxicity**

Remarks not determined

**Mutagenicity**

Remarks Based on available data, the classification criteria are not met.

**Reproductive toxicity**

evaluation Suspected of damaging fertility. Suspected of damaging the unborn child.  
Remarks The classification criteria are met.

**Reproduction toxicity (Components)**

**2-piperazin-1-ylethylamine**

Route of exposure oral  
Dose 150 mg/kg/d  
evaluation Suspected of damaging fertility or the unborn child.

**4-tert-Butylphenol**

Species rat  
evaluation Suspected of damaging fertility.

**Carcinogenicity**



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Remarks Based on available data, the classification criteria are not met.

**Carcinogenicity (Components)**

**4-methylpentan-2-one**  
evaluation

Definitely confirmed as causing cancer in the experiment on test animals.

**Specific Target Organ Toxicity (STOT)**

**Single exposure**

Remarks

Based on available data, the classification criteria are not met.

**Repeated exposure**

Remarks  
evaluation

The classification criteria are met.  
May cause damage to organs through prolonged or repeated exposure

**Specific Target Organ Toxicity (STOT) (Components)**

**(Z)-octadec-9-enylamine**  
evaluation

May cause respiratory irritation.

**(Z)-octadec-9-enylamine**  
evaluation

May cause damage to organs through prolonged or repeated exposure

**2-piperazin-1-ylethylamine**  
evaluation

Causes damage to organs through prolonged or repeated exposure

**4-methylpentan-2-one**  
evaluation

May cause drowsiness or dizziness.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Aspiration hazard (Components)**

**(Z)-octadec-9-enylamine**

Harmful: may cause lung damage if swallowed.

**11.2 Information on other hazards**

**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

No toxicological data are available.

**SECTION 12: Ecological information \*\*\***

**12.1. Toxicity**

**General information**

not determined

**Fish toxicity (Components)**

**benzyl alcohol**

Species	Fathead minnow (Pimephales promelas)		
LC50	460		mg/l
Duration of exposure	96	h	

**benzyl alcohol**

Species	golden orfe (Leuciscus idus)		
LC50	> 645		mg/l
Duration of exposure	96	h	

**2-piperazin-1-ylethylamine**

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Species Fathead minnow (*Pimephales promelas*)  
 LC50 2190 mg/l  
 Duration of exposure 96 h

**m-Phenylenebis(methylamine)**

Species rainbow trout (*Oncorhynchus mykiss*)  
 LC50 > 100 mg/l  
 Duration of exposure 96 h

**m-Phenylenebis(methylamine)**

Species *Oryzias latipes*  
 LC50 87,6 mg/l  
 Duration of exposure 96 h  
 Method OECD 203

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species zebra fish (*Brachydanio rerio*)  
 LL50 14,8 mg/l  
 Duration of exposure 96 h  
 Method OECD 203

**4-tert-Butylphenol**

Species rainbow trout (*Oncorhynchus mykiss*)  
 LC50 > 1 mg/l  
 Duration of exposure 96 h

**4-tert-Butylphenol**

Species Fathead minnow (*Pimephales promelas*)  
 LC50 5,1 mg/l  
 Duration of exposure 96 h

**4-tert-Butylphenol**

Species golden orfe (*Leuciscus idus*)  
 LC50 1,5 mg/l  
 Duration of exposure 48 h

**(Z)-octadec-9-enylamine**

Species Fathead minnow (*Pimephales promelas*)  
 LC50 > 0,01 to 0,1 mg/l  
 Duration of exposure 96 h  
 Method OECD 203

**2,2,4-Trimethylhexane-1,6-diamine**

Species golden orfe (*Leuciscus idus*)  
 LC50 174 mg/l  
 Duration of exposure 48 h

**4-methylpentan-2-one**

Species zebra fish (*Brachydanio rerio*)  
 LC50 > 179 mg/l  
 Duration of exposure 96 h  
 Method OECD 203

**Daphnia toxicity (Components)**

**benzyl alcohol**

Species *Daphnia magna*  
 EC50 230 mg/l  
 Duration of exposure 48 h  
 Method OECD 202

**benzyl alcohol**

Species *Daphnia magna*  
 NOEC 51 mg/l  
 Duration of exposure 21 d

**2-piperazin-1-ylethylamine**

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Species	Daphnia magna		
EC50	58		mg/l
Duration of exposure	48	h	

**m-Phenylenebis(methylamine)**

Species	Daphnia magna		
EC50	15,2		mg/l
Duration of exposure	48	h	
Method	OECD 202		

**m-Phenylenebis(methylamine)**

Species	Daphnia magna		
NOEC	4,7		mg/l
Duration of exposure	21	d	
Method	OECD 211		

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species	Daphnia magna		
EC50	4,6		mg/l
Duration of exposure	48	h	
Method	OECD 202		

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

NOEC	0,115		mg/l
Duration of exposure	21	d	
Method	OECD 211		
Remarks	Test conducted with a similar formulation.		

**4-tert-Butylphenol**

Species	Daphnia magna		
EC50	3,9		mg/l
Duration of exposure	48	h	

**(Z)-octadec-9-enylamine**

Species	Daphnia magna		
EC50	> 0,01	to	0,1 mg/l
Duration of exposure	48	h	
Method	OECD 202		

**2,2,4-Trimethylhexane-1,6-diamine**

Species	Daphnia magna		
EC50	31,5		mg/l
Duration of exposure	24	h	

**4-methylpentan-2-one**

Species	Daphnia magna		
EC50	> 200		mg/l
Duration of exposure	48	h	
Method	OECD 202		

**4-methylpentan-2-one**

Species	Daphnia magna		
NOEC	30		mg/l
Duration of exposure	21	d	
Method	OECD 211		

**Algae toxicity (Components)****benzyl alcohol**

Species	Pseudokirchneriella subcapitata		
IC50	770		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**2-piperazin-1-ylethylamine**

Species	Pseudokirchneriella subcapitata		
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EC50 > 1000 mg/l  
Duration of exposure 72 h

**m-Phenylenebis(methylamine)**

Species Pseudokirchneriella subcapitata  
EC50 33,3 mg/l  
Duration of exposure 72 h

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

Species Scenedesmus subspicatus  
EL50 3,14 mg/l  
Duration of exposure 72 h  
Method OECD 201

**4-tert-Butylphenol**

Species Selenastrum capricornutum  
EC50 < 100 mg/l  
Duration of exposure 72 h

**4-tert-Butylphenol**

Species Pseudokirchneriella subcapitata  
EC50 14 mg/l  
Duration of exposure 72 h

**(Z)-octadec-9-enylamine**

Species Desmodesmus subspicatus  
EC50 > 0,01 to 0,1 mg/l  
Duration of exposure 72 h  
Method OECD 201

**2,2,4-Trimethylhexane-1,6-diamine**

Species Scenedesmus subspicatus  
ErC50 43,5 mg/l  
Duration of exposure 72 h

**4-methylpentan-2-one**

Species Algae  
EC50 > 146 mg/l  
Duration of exposure 7 d

**4-methylpentan-2-one**

Species Algae  
NOEC 146 mg/l  
Duration of exposure 7 Days

**Bacteria toxicity (Components)**

**benzyl alcohol**

Species Pseudomonas putida  
EC10 > 658 mg/l  
Duration of exposure 16 h

**benzyl alcohol**

Species Pseudomonas putida  
EC50 390 mg/l  
Duration of exposure 24 h

**m-Phenylenebis(methylamine)**

Species activated sludge  
EC50 > 1000 mg/l  
Duration of exposure 0,5 h

**4-tert-Butylphenol**

Species activated sludge  
EC50 10 mg/l  
Duration of exposure 3 h

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**2,2,4-Trimethylhexane-1,6-diamine**

Species	Pseudomonas putida	
EC50	89	mg/l
Duration of exposure	17	h

**4-methylpentan-2-one**

Species	Pseudomonas putida	
EC50	275	mg/l
Duration of exposure	16	h
Method	DIN 38412 / Part 8	

**12.2. Persistence and degradability****General information**

not determined

**Biodegradability (Components)****4-methylpentan-2-one**

Value	83	%
Duration of test evaluation	28	d
Method	Readily biodegradable (according to OECD criteria) OECD 301F	

**benzyl alcohol**

Value	95	%
Duration of test evaluation	21	d
Method	Readily biodegradable (according to OECD criteria) OECD 301A / ISO 7827	

**(Z)-octadec-9-enylamine**

evaluation	Readily biodegradable (according to OECD criteria)	
Method	OECD 301 D	

**2-piperazin-1-ylethylamine**

evaluation not readily degradable

**m-Phenylenebis(methylamine)**

Value	49	%
Duration of test evaluation	28	d
Method	not readily degradable OECD 301 B	

**2,2,4-Trimethylhexane-1,6-diamine**

Remarks The product is not readily biodegradable according to OECD criteria but is inherently biodegradable.

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

evaluation not readily degradable

**4-tert-Butylphenol**

Value	60	%
Duration of test evaluation	28	d
Method	In principle biodegradable, failing 10-d window OECD 301 F	

**12.3. Bioaccumulative potential****General information**

not determined

**Partition coefficient n-octanol/water (log value)**

Remarks not determined

**Octanol/water partition coefficient (log Pow) (Components)****(Z)-octadec-9-enylamine**

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log Pow 3,7

**4-methylpentan-2-one**

pOW 79

log Pow 1,9

**benzyl alcohol**

log Pow 1

Temperature 20 °C

**2-piperazin-1-ylethylamine**

log Pow -1.48

**m-Phenylenebis(methylamine)**

log Pow 0,18

**2,2,4-Trimethylhexane-1,6-diamine**

log Pow -0,3

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

log Pow 3,03

**4-tert-Butylphenol**

log Pow 3

**Bioconcentration factor (BCF) (Components)****(Z)-octadec-9-enylamine**

BCF &gt; 500

**benzyl alcohol**

BCF 1,37

**Reaction mass of (1-Phenylethyl)phenols and bis-(1-phenylethyl)phenols**

BCF 69 to 190

**4-tert-Butylphenol**

BCF 44 to 48

**12.4. Mobility in soil****General information**

not determined

**12.5. Results of PBT and vPvB assessment****General information**

not determined

**Results of PBT and vPvB assessment**

The product contains no PBT substances

The product contains no vPvB substances.

**12.6 Endocrine disrupting properties****General information**

not determined

**Endocrine disrupting properties with respect to the environment**

The product contains substances that have endocrine disrupting properties with respect to non-target organisms.

**Endocrine disrupting properties with respect to the environment (Components)****4-tert-Butylphenol**

This substance has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****General information**

not determined

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### General information / ecology

Do not allow to enter soil, waterways or waste water canal. Avoid release into the atmosphere.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods







#### Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

#### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information

	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
14.1. UN number or ID number	2735	2735	2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine), (Z)-octadec-9-enylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine), (Z)-octadec-9-enylamine)	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-Phenylenebis(methylamine), 4-tert-Butylphenol)
14.3. Transport hazard class(es)	8	8	8
Label			
14.4. Packing group	II	II	II
Limited Quantity	1 I	1 I	
Transport category	2		
14.5. Environmental hazards	 ENVIRONMENTALLY HAZARDOUS	Marine Pollutant  ENVIRONMENTALLY HAZARDOUS	 ENVIRONMENTALLY HAZARDOUS
Tunnel restriction code	E		

### Information for all modes of transport

#### 14.6. Special precautions for user

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The relevant transport regulations have to be considered.

### Other information

#### 14.7 Maritime transport in bulk according to IMO instruments

no data

## SECTION 15: Regulatory information \*\*\*

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### Major-accident categories acc. 2012/18/EU

Category	E1	Hazardous to the Aquatic Environment	100000	kg	200000	kg
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#### VOC

VOC (EU)	0,95	%	9,9	g/l
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#### Other regulations, restrictions and prohibition regulations

Handling epoxy resin systems safely (published by PlasticsEurope) [www.plasticseurope.org](http://www.plasticseurope.org)

This product meets the requirements of Regulation (EC) No. 1935/2004 on the limitation of VOC content. EU2004/42/IIA(j)500(2010): <500g/l VOC

#### Restriction according to annex XVII to regulation (EU) No 1907/2006

Conditions of restriction for the entries Annex XVII REACH should be considered.

#### GIS-Code

GIS-Code	RE 90
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#### Other information

The product contains substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*

#### Key literature references and sources for data

SDS  
ECHA

#### Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification (Regulation (EC) No. 1272/2008)		
Skin Corr. 1A	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
Repr. 2	H361fd	Calculation method
STOT RE 2	H373	Calculation method
Aquatic Acute 1	H400	Calculation method
Aquatic Chronic 1	H410	Calculation method

#### Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.

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H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

### CLP categories listed in Chapter 2/3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Carc. 2	Carcinogenicity, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1A	Skin sensitization, Category 1A
Skin Sens. 1B	Skin sensitization, Category 1B
STOT RE 1	Specific target organ toxicity - repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

### Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 CAS: Chemical Abstracts Service  
 EAK: Europäischer Abfallkatalog  
 VOC: Volatile Organic Compound  
 MAK: Maximale Arbeitsplatz-Konzentration  
 AGW: Arbeitsplatzgrenzwert  
 BGW: Biologischer Grenzwert  
 NOEC: No observable effect concentration  
 LD: Lethal dose  
 LC: Lethal concentration  
 PBT: Persistent, Bioaccumulative and Toxic  
 vPvB: Very persistent and very bioaccumulative  
 SVHC: Substances of very high concern



Trade name: Hardener FH-Super for cds-AGL BeddingMortar

Version: 3 / GB

Date revised: 15.12.2025

Substance number: 19514

Replaces Version: 2 / GB

Print date: 15.12.2025

DNEL: Derived no effect level

PNEC: Predicted no effect concentration

OECD: Organisation for Economic Co-operation and Development

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

TRGS: Technische Regeln für Gefahrstoffe

### **Information about Safety Data Sheets Preparers**

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### **Supplemental information**

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.